PROJECT:										Prepared by/Date: /				
Definition Sketch:										QTOTAL       Soil Characteristics:         QMC       D15         QLB       D50         QRB       D85				
DEPTH OR W.S. (m) (1)	A (m²) (2)	V <sub>g</sub> (m/s)	d <sub>a</sub> (m) (4)	θ (5)	Ф (6)	K <sub>1</sub> (7)	D <sub>50</sub> (mm)	SF (9)	S <sub>S</sub> (10)	C (11)	C <sub>P/A</sub> (12)	D <sub>50</sub> (mm) (13)	NOTES (14)	
Design Sketch:								RIPRAP CHARACTERISTICS:   Size: Thickness:			cent eer 100 50	FABRIC CHARACTERISTICS:           Granular:         Size (mm)         Percent Finer           85         50           15         15           Fabric:         AOS < Perm. > Average Opening Size		

- (1) Water surface elevation
- (2) Main channel flow area
- (3) Main channel average velocity
- (4) Main channel average depth
- (5) Bank angle
- (6) Riprap angle of repose (Figure 38-6C)
- (7) Bank angle correction (Figure 38-6B)
- (8) Riprap size (Figure 38-6A)
- (9) Stability factor
- (10) Riprap specific gravity
- (11) Riprap size correction factor (Figure 38-6E)
- (12) Pier/abutment correction (3.38 if applicable)
- (13) Correction  $D_{50} = (8) \times (11) \times (12)$
- (14) Notes or comments

## RIPRAP SIZE PARTICLE EROSION Figure 38-6P